What is claimed is

1. A two-component system with controllable pot life, curing via a redox initiator system and composed of the following components:

component A
from 0.8 to 70% by weight, based on the entirety of polymers and monomers (component A and component B), of a polymer or polymer mixture prepared via aqueous emulsion polymerization and comprising from 0.01 to 30% by weight of a component of a redox initiator system mainly absorbed in the polymer particles or on the polymer particles,

component B
from 30 to 99% by weight, based on the entirety of polymers and monomers (A and B), of at least one ethylenically unsaturated monomer,

component C
from 0.01 to 5% by weight, based on the entirety of polymers and monomers (A and B), of at least one component of a redox initiator system which forms the partner of the initiator component absorbed in the particles of A, and

component D
from 0 to 800% by weight, based on the entirety of polymers and monomers (A and B), of fillers, pigments, and other auxiliaries.

2. The composition as claimed in claim 1, composed of the following components:

component A
from 3 to 60% by weight, based on the entirety of

polymers and monomers (component A and component B), of a polymer or polymer mixture prepared via aqueous emulsion polymerization and comprising from 0.01 to 30% by weight of a component of a redox initiator system mainly absorbed in the polymer particles or on the polymer particles,

component B
from 40 to 97% by weight, based on the entirety of polymers and monomers (A and B), of at least one ethylenically unsaturated monomer,

component C
from 0.01 to 5% by weight, based on the entirety of polymers and monomers (A and B), of at least one component of a redox initiator system which forms the partner of the initiator component absorbed in the particles of A, and

component D
from 0 to 800% by weight, based on the entirety of polymers and monomers (A and B), of fillers, pigments, and other auxiliaries.

3. The composition as claimed in claim 1, composed of the following components:

component A
from 5 to 60% by weight, based on the entirety of polymers and monomers (component A and component B), of a polymer or polymer mixture prepared via aqueous emulsion polymerization and comprising from 0.01 to 30% by weight of a component of a redox initiator system mainly absorbed in the polymer particles or on the polymer particles,

component B
from 40 to 95% by weight, based on the entirety of

polymers and monomers (A and B), of at least one ethylenically unsaturated monomer,

component C
from 0.01 to 5% by weight, based on the entirety of polymers and monomers (A and B), of at least one component of a redox initiator system which forms the partner of the initiator component absorbed in the particles of A, and

component D
from 0 to 800% by weight, based on the entirety of polymers and monomers (A and B), of fillers, pigments, and other auxiliaries.

4. The composition as claimed in claim 1, composed of the following components:

component A
from 10 to 50% by weight, based on the entirety of polymers and monomers (component A and component B), of a polymer or polymer mixture prepared via aqueous emulsion polymerization and comprising from 0.01 to 30% by weight of a component of a redox initiator system mainly absorbed in the polymer particles or on the polymer particles,

component B
from 50 to 90% by weight, based on the entirety of polymers and monomers (A and B), of at least one ethylenically unsaturated monomer,

component C
from 0.01 to 5% by weight, based on the entirety of polymers and monomers (A and B), of at least one component of a redox initiator system which forms the partner of the initiator component absorbed in the particles of A, (component C) and

component D
from 0 to 800% by weight, based on the entirety of polymers and monomers (A and B), of fillers, pigments, and other auxiliaries.

5. The composition as claimed in claim 1,

characterized in that

component A a polymer composed of

a) from 5 to 100% by weight, based on component A, of a monofunctional (meth)acrylate monomer whose water-solubility is < 2% by weight at 20°C

b) from 0 to 70% by weight, based on component A, of a monomer copolymerizable with the (meth)acrylate monomer

c) from 0 to 5% by weight, based on component A, of a polyunsaturated compound, and

d) from 0 to 20% by weight, based on component A, of a polar monomer whose water-solubility is > 2% by weight at 20°C,

and that component B of 2-(2-(2-ethoxyethoxy)-ethoxy)ethyl methacrylate, tetrahydrofuryl methacrylate or 1,4-butanediol dimethacrylate, and that component C comprises, as peroxide, dibenzoyl peroxide or dilauryl peroxide, and comprises, as accelerator component, N,N-dimethyl-p-toluidine or N,N-bis(2-hydroxyethyl)-p-toluidine.

6. The use of a composition as claimed in any of claims 1 to 5 as adhesive.

7. The use of a composition as claimed in any of claims 1 to 5 as casting resin.

8. The use of a composition as claimed in any of claims 1 to 5 as floor coating.

9. The use of a composition as claimed in any of claims 1 to 5 as composition for reactive plugs.

10. The use of a composition as claimed in any of claims 1 to 5 as dental composition.

11. The use of a composition as claimed in any of claims 1 to 5 as sealing composition.